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L1	170	SNMP and CIM	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 17:57
L2	150	SNMP and CIM and (conver\$5 or map\$4 or translat\$4)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 17:58
L3	117	SNMP and CIM and (conver\$5 or map\$4 or translat\$4) and (parameter\$1)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 17:59
L4	59	SNMP and CIM and (conver\$5 or map\$4 or translat\$4) and (parameter\$1) and (session\$1)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 21:01
L5	10	SNMP near6 CIM and (conver\$5 or map\$4 or translat\$4) and (parameter\$1) and (session\$1)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 18:11
L6	27	SNMP near6 CIM and (conver\$5 or map\$4 or translat\$4) and (parameter\$1)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 18:11
L7	5	SNMP near4 CIM and (conver\$5 or map\$4 or translat\$4) and (parameter\$1) and (session\$1)	US-PGPUB; USPAT; EPO	OR	ON	2005/07/14 21:01
S1	4	(snmp and cim) same (mib and mof)	US-PGPUB; USPAT; EPO	OR	ON	2005/01/06 14:15
S2	142	(snmp and cim)	US-PGPUB; USPAT; EPO	OR	ON	2005/01/05 10:49
S3	5	(snmp and cim) and 709/246.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2005/01/05 10:36
S4	18	(snmp and cim) same (map\$5 or translat\$3 or convert\$3)	US-PGPUB; USPAT; EPO	OR	ON	2005/01/05 10:37
S5	1187	709/246.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2005/01/05 10:50
S6	69	S5 and (snmp or cim or mib or mof)	US-PGPUB; USPAT; EPO	OR	ON	2005/01/06 10:41
S7	1	"6317784".pn.	US-PGPUB; USPAT; EPO	OR	ON	2005/01/06 10:43
S8	1	"6317748".pn.	US-PGPUB; USPAT; EPO	OR	ON	2005/01/06 10:46

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S10	14	chu.in. and (cim)	US-PGPUB; USPAT; EPO	OR	ON	2005/01/06 10:47
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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...



2 [Enabling location-based services in wireless LAN hotspots](#)

Yen-Cheng Chen, Yao-Jung Chan, Cheung-Wo She

May 2005 **International Journal of Network Management**, Volume 15 Issue 3

Full text available: pdf(477.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The wide deployment of IEEE 802.11 Wireless LAN (WLAN) makes possible application services developed in WLAN hotspots. Owing to the small cell size in WLAN hotspots, it is practical to develop location-based services with the awareness of the WLAN access points (APs) that mobile devices currently access. In this paper, we propose an effective location determination technique using the inherent SNMP support in WLAN APs. It is shown that the current location of a mobile device can be determined fr ...



3 [ASN.1 protocol specification for use with arbitrary encoding schemes](#)

Duke Tantiprasut, John Neil, Craig Farrell

August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4

Full text available: pdf(159.77 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Approximate query mapping: Accounting for translation closeness](#)


Kevin Chen-Chuan Chang, Héctor García-Molina

 September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3

Full text available:

Additional Information:



 [pdf\(661.19 KB\)](#)[full citation](#), [abstract](#), [index terms](#)

In this paper we present a mechanism for approximately translating Boolean query constraints across heterogeneous information sources. Achieving the best translation is challenging because sources support different constraints for formulating queries, and often these constraints cannot be precisely translated. For instance, a query [score>8] might be "perfectly" translated as [rating>0.8] at some site, but can only be approximated as [grade=A] at another. Unlike other work, our ...

Keywords: Approximate query translation, Closeness, Constraint-mapping, Information integration, Mediators

5 SNMP for home automation

Ran Giladi

July 2004 **International Journal of Network Management**, Volume 14 Issue 4Full text available:  [pdf\(177.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Home and building automation applications impose the need for convergence, or at least interoperability, of data networks with intelligent building networks. This situation entails the use of a unified management system. In this paper we extend the traditional SNMP-based network management system paradigm by creating an integrated site network management system that contains data elements, telecommunication equipment and intelligent building devices. A possible architecture based on a proxy gate ...

6 Internet security standards: past, present, and future

Stephen Kent

June 1994 **StandardView**, Volume 2 Issue 2Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Broadband application transport service and management

Zhenjun Zhu, Gerald Winters, Patrick Martin, Hussein T. Mouftah

November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  [pdf\(227.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multimedia applications using broadband networking technologies (for example, Asynchronous Transfer Mode) often require services not provided by standard transport layer middleware, such as TCP or TP4. A broadband transport service must provide support for QoS (quality of service) control, multiparty control, synchronization, packet sequence reconstruction, and direct data-link access. Management of a broadband transport service also plays an important role. For example, management information c ...

8 Papers: Independent active program representation using ASN. 1

Brad Williamson, Craig Farrell

April 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 2Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The future success of computer communications will largely depend on how effectively applications achieve their desired quality of service (QoS). Active networks move closer to the goal of application specified QoS by allowing user-specified network related computation to be *injected* into the network elements. Although research into active networks is in its infancy, one area that has not yet received much attention is the representation of active programs. The Active Network Encapsulatio ...

9 Translating among processable multi-media document formats using ODA

Jonathan Rosenberg, Mark S. Sherman, Ann Marks, Frank Giufrida

January 2000 **Proceedings of the ACM conference on Document processing systems**

Full text available:  [pdf\(730.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



10 A video conference network management system

D. Bandyopadhyay, H. Chen, S. Nedialkov, D. Tam

May 1998 **International Journal of Network Management**, Volume 8 Issue 3

Full text available:  [pdf\(231.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Setting up either one or multiple conferences and managing the various devices can be a very difficult task. In this article a newly developed distributed video conference management system is explained and tested. © 1998 John Wiley & Sons, Ltd.



11 Automatic generation of performance models using the distributed management framework (DMF)

Asham El Rayess, Jerome A. Rolia

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(98.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The purpose of the Distributed Management Framework (DMF) is to provide a layer of abstraction at a level convenient for management application developers. Specifically, it liberates the management application developer from the need to deal with application-dependent format, location, and access methods of management information. It also protects management applications from the need to evolve in response to changes in the managed system. In this paper we describe the DMF, illustrating its usef ...



12 IP next generation overview

Robert M. Hinden

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available:  [pdf\(610.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)



13 Stateful distributed interposition

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available:  [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...


Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation



14 A data definition and mapping language for numerical data bases

Ola-Olu A. Daini, Peter Scheuermann



January 1980 Proceedings of the ACM 1980 annual conferenceFull text available:  [pdf\(1.14 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Numerical data bases arise in many scientific applications to keep track of large sparse and dense matrices. Unlike the many matrix data storage techniques available for incore manipulation, very large matrices are currently limited to a few compact storage schemes on secondary devices, due to the complex underlying data management facilities. This paper proposes an approach for generalized numerical database management that would promote physical data independence by relieving users from t ...

15 Extensible MPEG-4 textual format (XMT)

Michelle Kim, Steve Wood, Lai-Tee Cheok

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**Full text available:  [pdf\(365.27 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Extensible MPEG-4 Textual format (XMT), a framework for representing MPEG-4 scene description using a textual syntax. The XMT allows the content authors to exchange their content with other authors, tools or service providers, and facilitates interoperability with both the X3D, developed by the Web3D consortium, and the Synchronized Multimedia Integration Language (SMIL) from the W3C consortium.

Keywords: MPEG-4, SMIL, X3D, authoring, scene description, textual format**16 An efficient and lightweight embedded Web server for Web-based network element management**

Hong-Taek Ju, Mi-Joung Choi, James W. Hong

September 2000 **International Journal of Network Management**, Volume 10 Issue 5Full text available:  [pdf\(428.26 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An Embedded Web Server (EWS) is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web‐based management user interface, which are user‐friendly, inexpensive, cross‐platform, and network‐ready. This article explores the topic of an efficient and lightweight embedded Web server for Web‐based netw ...

17 Traffic matrix estimation and tomography: A distributed approach to measure IP traffic matrices

Konstantina Papagiannaki, Nina Taft, Anukool Lakhina

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**Full text available:  [pdf\(490.96 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The traffic matrix of a telecommunications network is an essential input for any kind of network design and capacity planning decision. In this paper we address a debate surrounding traffic matrix estimation, namely whether or not the costs of direct measurement are too prohibitive to be practical. We examine the feasibility of direct measurement by outlining the computation, communication and storage overheads, for traffic matrices defined at different granularity levels. We illustrate that ...

Keywords: distributed algorithm, internet measurement, traffic matrix

18 File format for data exchange between graphic data bases

Arthur G. Gross

June 1978 **Proceedings of the 15th conference on Design automation**Full text available:  [pdf\(544.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A number of interactive graphics systems have been developed for cartographic applications. These systems have different capabilities and features, and little or no general provision has been made for transferring data base content between different systems or installations. A data base interchange file format has been designed for the Computer Assisted Mapping and Records Activities System, CAMRAS, sponsored by the American Public Works Association. The Association is evaluating the format ...

19 Technical papers: 4+4: an architecture for evolving the Internet address space back toward transparency


Zoltán Turányi, András Valkó, Andrew T. Campbell

October 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 5Full text available:  [pdf\(521.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We propose 4+4, a simple address extension architecture for Internet that provides an evolutionary approach to extending the existing IPv4 address space in comparison to more complex and disruptive approaches best exemplified by IPv6 deployment. The 4+4 architecture leverages the existence of Network Address Translators (NATs) and private address realms, and importantly, enables the return to end-to-end address transparency as the incremental deployment of 4+4 progresses. During the transition t ...

20 Conferencing: Ubiquitous computing using SIP

Stefan Berger, Henning Schulzrinne, Stylianos Sidiroglou, Xiaotao Wu

June 2003 **Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video**Full text available:  [pdf\(96.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past decade, there have been numerous efforts in ubiquitous computing, making computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered by multiple independent administrators and integrates off-the-shelf hardware and software. We are developing such a system based on the Session Initiation Protocol (SIP), with Bluetooth devices for location sensing and Service Location Pr ...

Keywords: SIP, SLP, bluetooth, location based services, scalability, ubiquitous computing

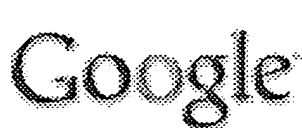
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agement standards such as **SNMP**. and **IPMI**. The **CIM** Schema. includes models for Systems, ... provides the **mapping** from the real. world to the abstracted (**CIM**) ...

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